





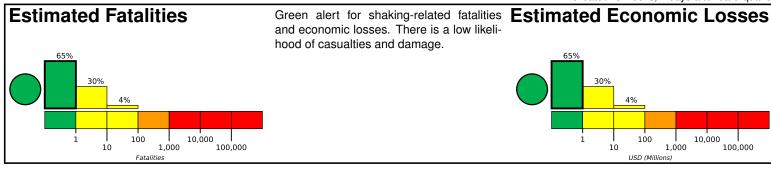
PAGER

Version 2

M 4.1, 17 km WSW of Ferndale, CA

Origin Time: 2023-09-30 17:16:47 UTC (Sat 10:16:47 local) Location: 40.5146° N 124.4327° W Depth: 33.0 km

Created: 3 weeks, 4 days after earthquake



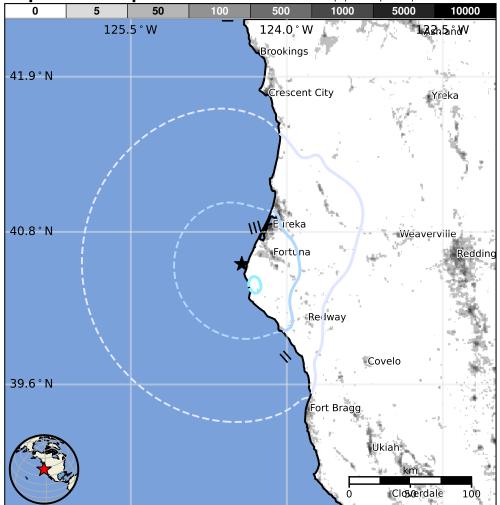
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		598k	147k	2k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	284	6.0	VI(47k)	1
1980-11-08	67	7.3	IX(16k)	0
1980-01-24	389	5.8	VII(35k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

	•	
MMI	City	Population
IV	Ferndale	1k
Ш	Fortuna	12k
Ш	Humboldt Hill	3k
Ш	Rio Dell	3k
Ш	Eureka	27k
Ш	Bayview	3k
II	Arcata	17k
II	Bayside	17k
I	Redding	90k
I	Ukiah	16k
T	Ashland	20k

bold cities appear on map.

(k = x1000)